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ABSTRACT

Given the high importance to this Nation's future of strengthening the quality of instruction, and access to that instruction, in the critical subjects supported by Title II of the Education for Economic Security Act, every effort should be made to widely and effectively share program successes. This Special Program of Exemplary Projects is one effort to accomplish that goal. The 23 projects presented at the National Title II Conference were selected from nearly 100 nominated by the states, each state nominating one project supported by the State Education Agency for Elementary and Secondary Education and one project funded by the State Agency for Higher Education. All nominated projects were considered to be equally outstanding and those selected to participate in the Washington meeting were chosen primarily on the basis of geographic and subject matter representation. A catalog of the nominated projects is included in this document. (CW)

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# NATIONAL EXEMPLARY PROGRAMS

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## THE EDUCATION FOR ECONOMIC SECURITY ACT

## U.S. Department of Education

Omni Shoreham Hotel
Washington, D.C

December 10, 1987

SE 050 239

# EXEMPLARY PROGRAM PRESENTATIONS

## TITLE II OF THE EDUCATION FOR ECONOMIC SECURITY ACT

## U.S. DEPARTMENT OF EDUCATION

COORDINATED BY:
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U.S. Department of Education
Washington, D.C. 20202

December 10, 1987

## INTRODUCTION

Given the high importance to this Nation's future of strengthening the quality of instruction, and access to that instruction, in the critical subjects supported by Title II of the Education for Economic Security Act, it is essential that every effort be made to widely and effectively share program successes. This **Special Program of Exemplary Projects** is one effort to accomplish that goal.

The 23 excellent projects presenting at the National Title II Conference were selected from nearly one-hundred nominated by the States - each State nominating one project supported by the State Education Agency for Elementary and Secondary Education and one project funded by the State Agency for Higher Education. All nominated projects were considered to be equally outstanding and those selected to participate in the Washington meeting (the National Steering Committee recommended that approximately 20 be selected) were chosen primarily on the basis of geographic (two per Education Department Region) and subject matter representation (to achieve a balance among Title II subjects and grade levels). All of the nominated projects will be included in a monograph that will be distributed nation-wide.

In the program scheduling, every effort was made to pair projects with similar content characteristics. When participating in the sessions, we encourage States to split up their teams so that at least eight exemplary programs can be interacted with during the time period.

We want to sincerely thank all of the State Title II officials and State and local project staff for their extraordinary contributions in helping to put this terrific set of programs together. As has become the tradition in Title II, a lot of busy and important people graciously and effectively extended a great deal of extra effort in helping us to identify and widely share the accomplishments of these excellent projects.

If you have any questions about the Title II exemplary projects or have any recommendations to make regarding how they can best be articulated and disseminated please contact Carolyn Lee at (202) 73.-4340.

Carolyn S. Lee

Allen Schmieder

KEY TO PROJECT SUMMARIES - Information for each project is provided for the following categories and in the following order:

**Nominating State** - ( State Education Agency (SEA) or State Agency for Higher Education (SAHE) nominated and funded/ and specific category of Title II Funds) - **Title** of **Project** - Subject/s covered - Grade levels included - Special focuses (if any) - Target Group/s, Project Goal/s, Presenter/s, Moderator/s (usually State Nominator/s)

**ALL PROGRAMS WILL BE PRESENTED TWICE - 10:00 a.m. - 11:00 a.m. and again from 11:15 a.m. to 12:00 P.M.**

SCHEDULE OF PROGRAMS

| PROGRAMS | SUBJECT/S/GRADE LEVEL/S | ROOM |
|---|---|---|
| PROGRAM I | Science-K-12<br>Science-K-12 | CALVERT |
| PROGRAM II | Science-9-12<br>Science-11-12 | COUNCIL |
| PROGRAM III | Math-K-12<br>Math-K-12 | GOVERNORS BOARD |
| PROGRAM IV | Math-8-9<br>Math-K-6 | EMPIRE |
| PROGRAM V | Math/Computer Science-Jr. High<br>Science-9-12 | CAUCUS |
| PROGRAM VI | Math/Science/Computer Science K-12<br>Science-4-6 | EMBASSY |
| PROGRAM VII | Math/Science-6-8<br>Math/Science-K-12 | CAPITOL |
| PROGRAM VIII | Math/Science-K-12<br>Math/Science-K-12 | ROOM 663 |
| PROGRAM IX | Math/Science-K-6<br>Math/Science-K-6 | ROOM 763 |
| PROGRAM X | Math/Science-K-12<br>Math/Science-9-12 | FORUM |
| PROGRAM XI | Norwegian-K-6<br>Spanish-7-12 | CHAIRMANS BOARD |
| PROGRAM XII | Math/Science-7-12 | COMMITTEE |

PROGRAM I CALVERT

CONNECTICUT - (SEA-SAHE/COOPERATIVE) - PROJECT ROBOTACTS - Science - K-12 - Partnership/Ed-Business - Target Groups: gifted and talented, districts serving historically underserved student populations. Goal: to provide students, teachers, and the community at large, with creative and exciting learning experiences in science and technology. (This program received original funding from the Title II Secretary's Discretionary Fund).

CONTACT : Mr. Aaron Rutherford
PHONE NUMBER: (203) 566-3910

PRESENTERS: Ken Alkire
Karen Askins
Jane Holdsworth
Jacob Mendelssohm
Creig Peterson

MODERATOR : Aaron Rutherford

CALIFORNIA - (SEA-EL/SEC/SAHE-COMPETITIVE/COOPERATIVE) - SCIENCE INSERVICE FOR RURAL CALIFORNIA - Science K-12 - Target Group: science teachers in rural California typically not serviced by university or National Science Foundation staff development programs. Goal: to disseminate currently available science education projects to a small but potent cadre of science teachers, mentor teachers, and department chairpersons. Designed to bring quality science education programs developed by the Lawrence Hall of Science to rural northern California science teachers.

CONTACT : Mr. Thomas P. Sachse
PHONE NUMBER: (916) 324-7187

PRESENTERS: Linda Delucci
Larry Malone

MODERATOR : Thomas P. Sachse

PROGRAM II COUNCIL

**MASSACHUSETTS** - (SAHE-COMPETITIVE) - **HARBOR EXPLORATIONS** - Science - 9-12 - Partnership/Ed-Business/Consortiums - Target Group: secondary science teachers. Two of the five goals are: 1) to provide an institutional base and solid academic connection for experienced and new science teachers who want to improve their knowledge of science content, teaching skills, and engage in field research opportunities by using the Boston Marine environment as a laboratory setting; and 2) to provide motivating "hands-on" on-water learning experiences for students that would become part of the learning activities of a full Boston Harbor classroom curriculum.

**CONTACT** : Dr. George Lowery/Ms. Elizabeth Fideler
**PHONE NUMBER:** (617) 727-7785

**PRESENTERS:** John Crowley
Betty J. Diener
Jean MacCormack
Howard M. Weiss

**MODERATOR** : George Lowery

**NEBRASKA** - (SEA-SAHE/COMPETITIVE) - **HIGH SCHOOL PHYSICS DEMONSTRATION/LABORATORY INSTITUTE** - Science - 11-12 - Target Groups: disadvantaged, the gifted, vocational education. Goals: participants will observe numerous demonstrations that they can use to teach physics to their students; they will learn some basic electronics and construct some electronic devices to help them better teach physics; they will meet and work with physics teachers from three different high schools who have been selected as exemplary teachers.

**CONTACT** : Mr. James Woodland
**PHONE NUMBER:** (402) 471-4329

**PRESENTER:** James Woodland

**MODERATOR:** Doris M. Crudup

PROGRAM III GOVERNORS BOARD ROOM

**ALASKA** - (SEA -DEMONSTRATION-EXEMPLARY) - **THE ALASKA MATH CONSORTIUM** - Mathematics - K-12 - Target Group: all teachers. Goals: to strengthen the math skills of all Alaska students through teacher training and exchange of successful classroom practices. Teachers from member districts participate in in-depth training which prepares them to lead efforts to enrich math programs in their school district.

**CONTACT** : Ms. Betty Reynolds
**PHONE NUMBER:** (907) 465-2824

**PRESENTER:** Peggy Cowan

**MODERATOR:** Betty Reynoldson

**INDIANA** - (SAHE-COMPETITIVE) - **IMPLEMENTATION OF MATHEMATICS ACHIEVEMENT THROUGH PROBLEM SOLVING** - Mathematics - K-12 - Target Group: entire school corporations; teachers of students taking "non-academic curricula;" with a priority to disadvantaged students. Goals: to train mathematics teachers in the use of the MAPS curriculum (Math Achievement in Problem Solving) for students in non-academic curriculums; to change attitudes toward mathematics teaching within entire school corporations.

**CONTACT** : Mr. John R. Hammond, III
**PHONE NUMBER:** (317) 232-4583

**PRESENTER:** Grayson Wheatley

**MODERATOR:** Karen Rasmussen

PROGRAM IV EMPIRE

**NEW JERSEY** - (SEA-EL/SEC) - **THE NEW JERSEY ALGEBRA PROJECT** - Mathematics - 8-9 - Partnership - Target Group: diversified. Goal: to enable a much broader spectrum of students to be successful in learning algebra and to be able to use it in doing quantitative reasoning.

**CONTACT** : Dr. Joel Bloom
**PHONE NUMBER**: (609) 292-4461

**PRESENTERS**: Laurie Fitchett
Charles Pine

**MODERATOR** : Ron Lesher

**TEXAS** - (SAHE-COOPERATIVE/COMPETITIVE) - **TRAINING OF ELEMENTARY SCHOOL TEACHERS IN MATHEMATICAL THINKING AND PROBLEM SOLVING** - Mathematics - K-6 - Underserved/Underrepresented; Partnership (Ed-Business and LEA-IHES) - Target Groups: disadvantaged, gifted, vocational education, disadvantaged gifted. Goal: to train elementary school teachers how to establish classroom learning environments that stimulate high level thinking skills in mathematics.

**CONTACT** : Ms. Nan Broussard
**PHONE NUMBER**: (512) 462-6463

**PRESENTERS**: Patricia Hess
Kathleen Martin

**MODERATOR** : Nan Broussard

PROGRAM V CAUCUS

**UTAH** - (SEA-DEMONSTRATION-EXEMPLARY) - **COMPUTERS IN THE MATHEMATICS CLASSROOM** - Mathematics/Computer Science - Junior High School - Partnership/Inservice and Retraining - Target Group: mathematics teachers. Goals: to develop and implement a computer mathematics training program for teachers; to create an exemplary model of how higher education can effectively interface with schools and teachers; to present students with state of the art of educational experiences.

**CONTACT** : Dr. Mark Spencer/Mr. R. LaMar Allred
**PHONE NUMBERS:** (801) 538-5247 (801) 533-5965

**PRESENTER:** Patricia Henry

**MODERATOR:** Mark Spencer

**MARYLAND** - (SAHE-COMPETITIVE) - **COMPUTERS TO ENHANCE SCIENCE EDUCATION** - Science - 9-12 - Computer Learning/Partnership - Target Groups: underserved/underrepresented. Goal: to use computers to enhance science instruction; intergrate computer education into the science curriculum so that students will see the computer as a powerful tool which will enable them to probe their environment and to process information.

**CONTACT** : Dr. George J. Funaro/Mr. Javier Miyares
**PHONE NUMBER:** (301) 974-2971

**PRESENTER:** Jo Ellen Roseman

**MODERATOR:** Javier Miyares

**PROGRAM VI** **EMBASSY**

**DISTRICT OF COLUMBIA** - (SEA-DEMONSTRATION-EXEMPLARY) - MATHEMATICS-SCIENCE RESOURCE CENTER - Mathematics/Science/Computer Science - Pre-Kindergarten through grade twelve - Target Group: teachers teaching mathematics, science, and computer learning out of field; certified mathematics and science teachers from public, private, and parochial schools. Goal: to provide materials, equipment, and personnel to support the training and retraining of mathematics, science, and computer science teachers, thereby improving mathematics and science education in the District of Columbia.

**CONTACT** : Mr. Tom Garrett
**PHONE NUMBER:** (202) 724-4235

**PRESENTERS:** Doris Deboe
Gloria White

**MODERATOR** : Tom Garrett

**ARKANSAS** - (SEA-LEAS/CONSORTIUM) - SCIENCE INSERVICE FOR ELEMENTARY TEACHERS - Science - 4-6 - Target Group: all teachers grades 4 to 6. Goals: to provide science content inservice training for teachers of grades four through six; to model discovery and inquiry methods of teaching science for elementary teachers; to serve as a resource to teachers as they plan and prepare to introduce activities in the area of science.

**CONTACT** : Dr. Charles D. Watson
**PHONE NUMBER:** (501) 371-2941

**PRESENTERS:** Tim Daniels
Marshall Daniels
Joe Stephens

**MODERATOR** : Charles D. Watson

**PROGRAM VII** **CAPITOL**

**ARIZONA** - (SEA-DEMONSTRATION-EXEMPLARY) - **ARIZONA TEACHERS' ACADEMY** - Mathematics/Science - 6-8 - Target Group: rural and small school science and mathematics teachers. Goals: to form networks of colleagues who will support change and innovation througout the school year; gain new knowledge and apply the knowledge within mathematics and science classroom contexts; assess current philosophy, methods, and instructional programs; design professional growth plans; share exemplary programs.

**CONTACT** : Mr. David Hardway
**PHONE NUMBER:** (602) 255-2147

**PRESENTER:** Larry McBiles

**MODERATOR:** David Hardway

**LOUISIANA** - (SEA-DEMONSTRATION-EXEMPLARY) - **LOUISIANA'S EDUCATIONAL SPACE SCIENCE RESOURCE CENTER/"NASA AND LOUISIANA PREPARING FOR OUR FUTURE"** - Mathematics/Science - K-12 - Partnership: Ed-Business/LEAS-IHES. Target Groups: under-served/underrepresented. Goals: re-energize Nation's commitment to educational excellence; increase scientific literacy among citizens; equip teachers with new tools and strategies to produce more creative, effective science and math instruction.

**CONTACT** : Dr. Dan K. Lewis/Ms. Doris P. Johnson
**PHONE NUMBER:** (504) 342-3375

**PRESENTER:** Deborah W. Harris

**MODERATOR:** Doris P. Johnson

PROGRAM VIII ROOM 663

**MICHIGAN** - (SEA-LEA) - **MATHEMATICS/SCIENCE TITLE II STAFF DEVELOPMENT GRANT** - Mathematics/Science - K-12 - Partnership - Target Groups: math/science teachers, reassigned teachers. Goals: to improve the instructional process and content in mathematics and science; to form a partnership with industry and prepare for the 21st Century; to increase students' awareness (especially females) of the need for mathematics and science.

**CONTACT** : Ms. Nancy C. Mincemoyer
**PHONE NUMBER:** (517) 373-3279

**PRESENTER:** Barbara Markle

**MODERATOR:** Nancy C. Mincemoyer

**WYOMING** - (SAHE-COMPETITIVE/SEA-LEA) - **PROJECT RENEW - A SYSTEM FOR EDUCATIONAL RENEWAL OF WYOMING TEACHERS IN SCIENCE AND MATHEMATICS** - Mathematics/Science - K-12 - Partnership/ LEA-IHEs - Target Groups: teachers of mathematics and science. Goal: to establish a continuing schools-university partnership that will evolve into an effective vehicle for the improvement of science and mathematics education in Wyoming and the region.

**CONTACT** : Mr. Alan G. Wheeler
**PHONE NUMBER:** (307) 777-6808

**PRESENTER:** Vince Sindt

**MODERATOR:** Pete Ellsworth

PROGRAM IX ROOM 763

MISSISSIPPI - (SEA-EL/SEC/SAHE-COOPERATIVE) - MATHEMATICS AND SCIENCE STAFF DEVELOPMENT K-6 - Mathematics/Science - K-6 - Partnerships/LEAS-IHES -Target Group: underserved/underpresented, LEAs with low student achievement as measured by ACT scores. Goal: to enhance the instructional capabilities of K-6 teachers related to the basic and integrated science processes, critical thinking, computorial logic, proportional reasoning, and basic manipulative and mathematical skills.

CONTACT : Dr. Rita Norton/Ms. Margaret Sentif
PHONE NUMBERS: (601) 982-6611 (601) 359-3498

PRESENTERS: Bobby Irby
Malcolm McEwen
Colleen Noble
Garth Runion

MODERATOR : Margaret Sentif

MISSOURI - (SAHE-COMPETITIVE) - THE KSAM PROJECT: IMPROVING ELEMENTARY SCIENCE AND MATHEMATICS INSTRUCTION - Mathematics/Science - K-6 - Underserved/Underrepresented; Partnerships - LEAS-IHES; Cooperative - SEAS-SAHE - Target Group: elementary teachers in rural school districts. Goals: to encourage teachers to incorporate more hands-on science and mathematics instruction in their classes and to increase the amount of time spent in the elementary classroom on science and mathematics; to increase teacher confidence in teaching mathematics and science and to provide teachers with information regarding available methods and materials for incorporating science and math activities into the classroom.

CONTACT : Dr. Cynthia Phillips
PHONE NUMBER: (314) 751-2361

PRESENTERS: Ernest L. Kern
Edward C. Stoever, Jr.

MODERATOR : Cynthia Phillips

PROGRAM X FORUM

NORTH CAROLINA - (SAHE-COMPETITIVE) - MODIFIED CERTIFICATION PROGRAM TO STUDY RURAL AREAS WITH QUALIFIED MATHEMATICS AND SCIENCE TEACHERS - Mathematics/Science - K-12 - Underserved - Target Group: college graduates who are currently working in industry or the military service, or who are attending graduate school. Goal: to provide an alternative certification method to supply rural areas with qualified middle grade and high school mathematics and science teachers.

CONTACT : Dr. Vinetta Jones/Mr. Tom Rudin
PHONE NUMBER: (919) 966-3256

PRESENTERS: Charles Coble
Katherine Hodgin
Annabell W. Pearson

MODERATOR : Vinetta Jones

NEW YORK - (SAHE-COMPETITIVE) - SUNY PURCHASE/WESTCHESTER SCHOOL PARTNERSHIP: MAKING THE CONNECTIONS FOR BETTER EDUCATION - Mathematics/Science (chemistry and physics) - Secondary School - Target Group: high school teachers of chemistry, mathematics and physics. Goal: to improve mathematics and science curricula and teaching in high schools through a network of dedicated, well-trained teachers.

CONTACT : Mr. Claudio R. Prieto/Ms. Rebecca Kinnard
PHONE NUMBERS: (518) 474-1311 (518) 474-5705

PRESENTERS: H. Murray Blueglass
Theodore L. Gross
Carlo Parravano
Sidney Trubowitz

MODERATOR : Fran Holland

PROGRAM XI CHAIRMANS BOARD ROOM

**MINNESOTA** - (SEA-DEMONSTRATION-EXEMPLARY) - **LEARNING TO INTEGRATE NORWEGIAN, THE CLASSROOM AND THE COMMUNITY (LINC) PROJECT** - Foreign Languages - K-6 - Partnership/LEA/IHES - Target Group: all students in grades K-6, with a special activity addressing the needs of gifted and talented students. Goals: to enable students in grades K-6 and their teachers to communicate verbally and nonverbally in the Norwegian language in settings that correspond to learning experiences in the classroom context; to identify and interpret elements of Norwegian culture found in the immediate geographic area; and to apply perspectives of Norwegian culture to topics taught throughout the daily curriculum.

**CONTACT** : Ms. Nancy B. Walters
**PHONE NUMBER:** (612) 296-2704

**PRESENTER:** Janet Pladson

**MODERATOR:** Nancy B. Walters

**TEXAS** - (SEA-DEMONSTRATION-EXEMPLARY) - **FOREIGN LANGUAGE ARTS PROJECT FOR HISPANIC SPEAKERS** - Spanish - 7-12 - Target Group: Hispanic students. Goals: to explore the history of teaching Spanish to native speakers of Spanish in the United States; to review instructional materials; to acquire instructional strategies to improve the delivery of Spanish instruction and to develop curriculum publications.

**CONTACT** : Dr. Gilbert S. Garcia/Ms. Rosalind Eathorne
**PHONE NUMBER:** (512) 463-9661

**PRESENTERS:** Rosalind Eathorne
Gilbert S. Garcia

**MODERATOR :** Gilbert S. Garcia

PROGRAM XII COMMITTEE ROOM

**ALABAMA** - (SEA-SAHE/COOPERATIVE) - <u>ALABAMA TEACHERS' SPACE ORIENTATION COURSE</u> - Mathematics/Science - 7-12 - Partnership: Ed-Business/Government Agencies - Target Group: teachers of gifted students. Goals: to introduce the teachers to a variety of space related subjects and techniques which may be used in the classroom; to present current research and technological development in a hands-on experience with the Space Program; to develop a number of experiments which can be used in the classroom; to motivate teachers to stimulate pupils in the areas of mathematics and science; to motivate teachers to not lower their standards but increase their effort in these areas.

CONTACT : Dr. Eloise T. Kirk
PHONE NUMBER: (205) 261-5145

PRESENTERS: William E. Berryman
John Funk
William Lucas

MODERATOR : Eloise T. Kirk